

Fig. 1A

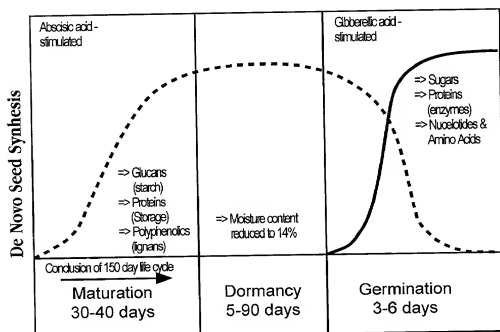


Fig. 1B

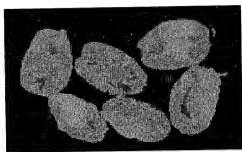
[illegible]

Fig. 1C

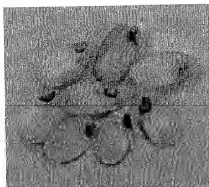


Fig. 1D

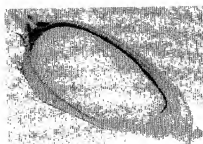


Fig. 1E



Fig. 1F

10 20 30 40 50 60 70
 GGTACCCATC TAATACATTA ATAACAAGAG AGAGAATGGA TAATGCAATT ATTTATTTTT ATGGGAGGCT
 CCATGGGTAG ATTATGTAAT TATTGTTCTC TCTCTTACCT ATTACGTTAA TAAATAAAAA TACCCTCCGA

 80 90 100 110 120 130 140
 ATATTTTTAT CGGATTTTAT TAAATAACGG GGCAATTCCG TACTTAGGTA AAGCTACGTA TGACTATCGC
 TATAAAAAA GCCTAAAATC ATTTATTGCC CCGTTAAGCC ATGAATCCAT TTCGATGCAT ACTGATAGCG

 150 160 170 180 190 200 210
 TACCGCTACG GTAGTTGAAT TGGAAATCTT CGATAGCATC TGTGTGTGTG TTGCAGTTAG GGTACTTGAA
 ATGGCGATGC CATCAACTTA ACCTTAAGAA GCTATCGTAG ACAACACAAC AACGTCATC CCATGAACCT

 220 230 240 250 260 270 280
 TAGCTCCAGC CGTGAAAACG AGGGGTTTTT GCAGGTTTTA TAGGATTGCC AAGTTAGACT AGGGCAATTC
 ATCGAGGTGC GCACTTTTCG TCCCCAAAAG CGTCCAAAAT ATCCTAACGG TTCATCTGTA TCCCGTTAAG

 290 300 310 320 330 340 350
 ATGTTTACGG TATTGTGTAG TATATGAAAA AGGAGATCTC CCAACAATTT TATAATTTTG TATAAGGGAG
 TACAAGTGCC ATAACACATC ATATACTTTT TCCTCTAGAG GGTTTGTTAA ATATATAAAC ATATTCCCTC

 >AT-rich_region_
 |
 360 370 380 390 400 410 420
 AAATCGAATC TGAGTGAATC AATTCACCAA CCGAGCTACT CCCTCCGTTT CATATATGTA TATACATATA
 TTTAGCTTGA ACTCCACAGA TTAAGTGGTT GGCTCGATGA GGGAGGCAAA GTATATACAT ATATGTATAT

 430 440 450 460 470 480 490
 TACGTATATA TACGTATATA CACATATACG TATATACATA TATGGTATAT ACATATATAT ATATATATAT
 ATGCATATAT ATGCATATAT GTGTATATGC ATATATGTAT ATACCATATA TGTATATATA TATATATATA

 500 510 520 530 540 550 560
 ATATATATAT ATGTGTGTGT GTGTATGTGG GGTGGCAATG CTAAAAAGTT TTATAATATG AACGGATGAA
 TATATATATA TACACACACA CACATACACC CCACCGTTAC GATTTTTCAT AATATTATAC TTGCCTACTT

 570 580 590 600 610 620 630
 GTACTATCCA CTAAGTCCTT ATAGTTTTCT GGCACGTGTT AGTATACGAA TGCACAATTA TATCCATAAA
 CATGATAGGT GATTTCAGGA TATCAAAAGA CCGTGACACA TCATATGCCT ACGTGTTAAT ATAGGTATTT

 640 650 660 670 680 690 700
 ATTGATATTA TATATTGCTC GCGACGAAAA TAAAGACATA ATATTGTTTA TACCATTTAT CCACGATATA
 TAACTATAAT ATATAAGCAG CCGTGTCTTT ATTTCTGTAT TATAAGCCAT ATGGTAAATA GGTGCTATAT

 710 720 730 740 750 760 770
 TCTAATTCC ACTGATATAT CTAATTTCCA CTTGATCCCT TTTATGGATA AATTCGGAT AACAACTACT
 AGATTTAAGG TGACTATATA GATTTAAGGT GAAC TAGGGA AAATACCTAT TTAAGACCTA TTGTTAATGA

 780 790 800 810 820 830 840
 ACCAGCAGTA TATCTACTA TCAGCGCACT GCACACCAAA CTACCTTCAC CCAGTAGTTA CAAACGCATA
 TGGTCGTCAT ATAGGATGAT AGTCGCGTGA CGTGTGTTTT GATGGGAGTG GGTCAATCAAT GTTTGCGTAT

Fig. 2A

850 860 870 880 890 900 910
 TTTTGCCGTT AGTTAATTAT TATCCGCTAA AGAAGGTAAA GAAGATTGGT AGTAAATCCAA AATTTTCCCA
 AAAACGGCAA TCAATTAATA ATAGGCCATT TCTTCCATT TTTCTAACCA TCATTAGGTT TTTAAAGGGT

920 930 940 950 960 970 980
 ACCCCAACCT CGGAACAAAA ACCGCGTAGT ATTGTGTCGTA ACCAGGAGCA TCCGAGTCAT TAATTACAC
 TGGGGTTGGA GCCTTGTTT TGGCGCATCA TAAACAGCAT TGGTCTCGT AGGCTCAGTA ATTAATGTG

>Transcription_start_site

>CAAG_site

990 1000 1010 1020 1030 1040 1050
 CCAACACAA AAAATTAGCA GCACGCGACC GCCTTCCCAA TCCTCTCCTC TCTCCTCTCC TCTTCTCCAA
 GGTGTGTGTT TTTTAATCGT CGTGCCTCG CGGAAGGGTT AGGAGAGGAG AGAGGAGAGG AGAAGAGGTT

1060 1070 1080 1090 1100 1110 1120
 GCGGCAATTC GCGCGAGGTT TTCTCCGATC AAACCCCTCGA ATCCCCCCT CGCGAATCCA TCGGAGGGTA
 CGCCGTTAAG CGCGCTCCAA AAGAGGCTAG TTTGGGAGCT TAGGGGGGGA GCGCTTAGT AGCCTCCCAT

1130 1140 1150 1160 1170 1180
 GCCCCGCGAT CCGCGTCGGC GAGAGCGGAT TCCGATTCGG CG ATG GAG CGG GTG TTC TCC GTG
 CGGGGGCGCTA GGCGCAGCCG CTCTCGCCTA AGGCTAAGGC GC TAC CTC GCC CAC AAG AGG CAC
 M E R V F S V>
 _a_a_a_EXON1_a_a_a_>

1190 1200 1210 1220 1230 1240
 GAG GAG ATC TCC GAC CCA TTC TGG GTC CCG CCT CCG CCG CCG CAG TCG GCG GCG GCG
 CTC CTC TAG AGG CTG GGT AAG ACC CAG GGC GGA GGC GGC GGC GTC AGC CGC CGC CGC
 E E I S D P F W V P P P P P Q S A A A>
 _a_a_a_a_a_a_a_a_a_a_EXON1_a_a_a_a_a_a_a_a_a_a_>

1250 1260 1270 1280 1290
 GCC CAG CAG CAG GGC GGC GGC GTC GCT TCG GGA GGT GGT GGT GGT GTA GCG GGC
 CGG GTC GTC GTC CCG CCG CCG CCG CAC CGA AGC CCT CCA CCA CCA CAT CGC CCC
 A Q Q Q G G G G V A S G G G G G V A G>
 _a_a_a_a_a_a_a_a_a_a_EXON1_a_a_a_a_a_a_a_a_a_a_>

1300 1310 1320 1330 1340 1350
 GGC GGC GGC GGC GGC AAC GCG ATG AAC CGG CCG TCG GAG TGG TAC TTC CAG AAG
 CCG CCG CCG CCG CCC TTG GCG TAC TTG GCC ACG GGC AGC CTC ACC ATG AAG GTC TTC
 G G G G G N A M N R C P S E W Y F Q K>
 _a_a_a_a_a_a_a_a_a_a_EXON1_a_a_a_a_a_a_a_a_a_a_>

1360 1370 1380 1390 1400 1410
 TTT CTG GAG GAG GCG GTG CTC GAT AGC CCC GTC CCG AAC CCT AGC CCG AGG GCC GAA
 AAA GAC CTC CTC CGC CAC GAG CTA TCG GGG CAG GGC TTG GGA TCG GGC TCC CGG CTT
 F L E E A V L D S P V P N P S P R A E>
 _a_a_a_a_a_a_a_a_a_a_EXON1_a_a_a_a_a_a_a_a_a_a_>

Fig. 2B

1420 1430 1440 1450 1460
 GCG GGA GGG ATC AGG GGC GCA GGA GGG GTG GTG CCG GTC GAT GTT AAG CAG CCG CAG
 CGC CCT CCC TAG TCC CCG CGT CCT CCC CAC CAC GGC CAG CTA CAA TTC GTC GGC GTC
 A G G I R G A G G V V P V D V K Q P Q>
 _ _ a _ a _ a _ a _ a _ a _ EXON1 _ _ a _ a _ a _ a _ a _ a _>

1470 1480 1490 1500 1510
 1520
 CTC TCG GCG GCG GCG ACG ACG AGC GCG GTG GTG GAC CCC GTG GAG TAC AAC GCG ATG
 GAG AGC CGC CGC CGC TGC TGC TCG CGC CAC CAC CTG GGG CAC CTC ATG TTG CGC TAC
 L S A A A T T S A V V D P V E Y N A M>
 _ _ a _ a _ a _ a _ a _ a _ EXON1 _ _ a _ a _ a _ a _ a _ a _>

1530 1540 1550 1560 1570 1580
 CTG AAG CAG AAG CTG GAG AAG GAC CTC GCC GCG GTC GCC ATG TGG AGG GTACAGC
 GAC TTC GTC TTC GAC CTC TTC CTG GAG CGG CGC CAG CGG TAC ACC TCC CATGTCTG
 L K Q K L E K D L A A V A M W R>
 _ _ a _ a _ a _ a _ a _ a _ EXON1 _ _ a _ a _ a _ a _ a _ a _>

1590 1600 1610 1620 1630 1640 1650
 CATTCTCCCC CCCTCTAGTA CTCGAGAGCT TACTGAGATC GGCAATGCTA GCTACTGTTT GCATCGAATG
 GTAAGAGGGG GGGAGATCAT GAGCTCTCGA ATGACTCTAG CCGTTACGAT CGATGACAAA CGTAGCTTAC

1660 1670 1680 1690 1700 1710 1720
 TTTATAGGTA TTTAGATCGG GCATTTCATAT AGACCAATGG CGTCCATGGT CTTGCAATGC GCTCTGTTGA
 AAAATATCCAT AAATCTAGCC CGTAAAGATA TCTGGTTACC GCAGGTACCA GAACGTTACG CGAGACAACT

1730 1740 1750 1760 1770 1780 1790
 GTGTCGGTGG TTGGTTCGAC TCATAGTATG TAGGGTTGTG CGTATGTACA AACCGAAGCT TCATAGACCT
 CACAGCCACC AACCAAGCTG AGTATCATAC ATCCCCAACAC GCATACATGT TTGCCTTCGA AGTATCTGGA

1800 1810 1820 1830 1840 1850 1860
 CGGTATTGAG ATTGCGATAT CGATGCAACC TGCGAATTGG CGATGTAATC AGTCATATTC TTAATAAACT
 GCCATAACTC TAACGCTATA GCTACGTTGG ACGCTTAACC GCTACATTAG TCAGTATAAG AATGATTTGA

1870 1880 1890 1900 1910 1920 1930
 GCGAGACAGT GGGTTTGTG CAATTGCAAT ATTTTGTGAT GGGGCTGCTT AAACGTGTCAT TGCCCTTTTAA
 CGCTCTGTCA CCAACAAACG GTTAACGTTA TAAAAACATA CCCCACGAA TTTGACAGTA ACGGAAAAAT

1940 1950 1960 1970 1980 1990 2000
 GATTGGCAAT ATGTGACTTT ATGCAAGTAT TTGATTGGGC GGATCCAGGA ACAAAGATT GGGGGGATTC
 CTAACCGTTA TACACTGAA TACGTTTATA AACTAACCCG CCTAGGTCCT TGTTTTTCAA CCCCCCTAAG

2010 2020 2030 2040 2050 2060 2070
 AACATACCGA GTACACTGGC ATAAACACAT CATCTCAGTA TTAACATATG CTAAATGCT ATTAAGAGAC
 TTGTATGGCT CATGTGACCG TATTTGTGTA GTAGAGTCAT AATTGTATAC GATTTTACGA TAATTCTCTG

Fig. 2C

2080	2090	2100	2110	2120	2130	2140
CTTTAGCACC	TCTTATCTTA	TCAACCATAT	TGAAAAAAT	GAAAGGGGGGA	CTCAGGGGGG	TATCCATGGG
GAAATCTGGG	AGAATAGAA	AGTTGGTACC	ACTTTTTTAA	CTTCCCCCTC	GAGTCCCCCC	ATAGTATACC
2150	2160	2170	2180	2190	2200	2210
TCCGATGGGT	GCAGGGGGGA	CTGAGTCCCC	CCTGCACCCA	CGTTGAATCC	GCCCTGGCAT	CGGTATAAGC
AGGCTACCCA	CGTCCCCCCT	GACTCAGGGG	GGACGTGGGT	GCAACTTAGG	CGGGACCGTA	CGCATATTTC
2220	2230	2240	2250	2260	2270	2280
TGTCACAGCC	ATTTCTAGGT	GCTTGTGCTT	AGTTGGGTGA	TGTCAGCTTA	ATTTGTCTTT	TCTATGTGCT
ACAGTGTGCG	TAAAGATCCA	CGAACACGAA	TCAACCCACT	ACAGTCAAGT	TAAACAGAAA	AGATACAGCA
2290	2300	2310	2320	2330	2340	2350
CATCGATTTT	CTAAGAAACG	AAAAATAGCC	TATTTAATGT	CTCCAGAAAT	TGATGATCCC	TGGCCCCTTCA
GTAGCTAAAA	GATTCTTTGC	TTTTTATCGG	ATAAATACAC	GAGGTCTTAA	ACTACTAGGG	ACCGGGAAGT
2360	2370	2380	2390	2400	2410	2420
TTTGCTGAAA	TTAGCCCTATT	TGTTGGTTGC	CCTTCAGTTF	TTTCCCAGCT	TATGTTGTTG	CAATGTGTGG
AAACGACTTT	AATCGGATAA	ACAACCACAG	GGAAGTCAAA	AAAGGGTCGA	ATACAACAAC	GTTCACACCC
2430	2440	2450	2460	2470	2480	2490
CTATGCCCTCG	TTTTTGTCGCC	TATAATTTAT	TATTTGCAAT	TCATTTTGTG	ACATGACTTA	AAATGACACT
GATACGGAGC	AAAACACGGG	ATATTAAATA	ATAAACGTTA	AGTAAAAACA	TGTACTGAAT	TTTACTGTGA
2500	2510	2520	2530	2540	2550	2560
AGAGCAACAT	GCACCTGATT	GTTATCCTAT	AATCAITTTAT	GTAGTTCTGT	TCATTTTATC	ATGCTAGCTC
TCTCGTTGTA	CGTGACTAAC	CAATAGGATA	TTAGTAAATA	CATCAAGACA	AGTAAAAATAG	TACGATCTGAG
2570	2580	2590	2600	2610	2620	
ATGTCATTTT	CATCTTTCAG	GCC TCT GGC	ACA GTT CCA	CCT GAG CGT	CCT GGA GCT	GGT TCA
TACAGTAAAA	GTAGAAGTC	CGG AGA CCG	TGT CAA GGT	GGA CTC GCA	GGA CCT CGA	CCA AGT
		A S G T V P P E R P G C A A G S >				
		__b__b__b__b__b__b__	EXON2	__b__b__b__b__b__b__		
2630	2640	2650	2660	2670	2680	
TCC TTG CTG AAT GCA GAT GTT TCA CAC ATA GGC GCT CCT AAT TCC ATC GGA GTTACTTA						
AGG AAC GAC TTA CGT CTA CAA AGT GTG TAT CCG CGA GGA TTA AGG TAG CCT CCATGAAT						
S L L N A D V S H I G A P N S I G>						
__b__b__b__b__b__b__	EXON2	__b__b__b__b__b__b__				
2690	2700	2710	2720	2730	2740	2750
TCTTATCTGG	TTACATTTTC	AGATTGTTAT	GAAACTACCC	AAATATCCTGT	CACAATTTCGA	TGGGATTAAA
AGAATGAGCC	AATGTAAAGG	TCTTAACAATA	CTTTGATGGG	TTTATAGGAC	GTGTTAAGCT	AGCTTAATTT

Fig. 2D

2760 2770 2780 2790 2800 2810 2820
 TTTTAGTTTC TTTGAAATAG AAGTAGAGTT GTATTGCTGT CACGTCATCA AATAGTTCTG AAGCATGAA
 AAAATCAAAG AAACTTTATC TTCATCTCAA CATAACGACA GTGCAGTAGT TTATCAAGAC TTCGATACTT

2830 2840 2850 2860 2870 2880 2890
 TAAATAAGTT CCGCATTGTG TAGTGATTCT TTGAACATTA GAATTGTTAT GCTTAAGTAG ATAGGGTTAT
 ATTTATTCAA GGGCTAACA ATCACTAAGA AACTTGTAAT CTTAACAATA CGAATTTCATC TATCCCAATA

2900 2910 2920 2930 2940 2950 2960
 GTTGTGTTGG AGTTCCCTTA AATCATTTCA TTGCTGACTG CCAGCTGGCA GGAGCATTTG TTGTTGCCTT
 CAAACAAACC TCAAGGGAAT TTAGTAAAGT AACGACTGAC GGTGACCGCT CCTCGTAAAC AACACGGA

2970 2980 2990 3000 3010 3020 3030
 GACCATGAAT GAAGACCTTC CTGTTCTGAG TGCTCACAAG AAAACATATT TTGATTAATG CACCTTGAAT
 CTGGTACTTA CTCTGGAAG GACAAGACTC ACGAGTGTTT TTTTGATATAA AACTAATTAC GTGGAACCTTA

3040 3050 3060 3070 3080 3090 3100
 CCTTAGGATC TTGCAAAAGAT GGGCACTTAG CTTTAGAATT GAGTAGTACT TAAATAGCTG TTGTTATCAT
 GGAATCCTAG AACGTTTCTA CCGGTGAATC GAAATCTTAA CTCATCATGA ATTTATCGAC AACAAATAGTA

3110 3120 3130 3140 3150 3160 3170
 GATTGTCTCT GTAGTGAAAT GTCGACAAAA CAGGAATGCT ACTTTTGACT TCTGATATTT CATGCCTGGC
 CTAACAGGA CATCACTTTA CAGCTGTTTT GTCTTACGA TGAAACTGA AGACTATAAA GTACGGACCG

3180 3190 3200 3210 3220 3230
 TTTACTTATG CTCTGTTTGG AACATGGGCA CATATCA GGC AAT GCT ACT CCA GTT CAA AAC ATG
 AAATGAATAC GAGACAAACC TTGTACCCGT GTATAGT CCG TTA CGA TGA GGT CAA GTT TIG TAC
 G N A T P V Q N M>
 _c_c_c_c_EXON3 _c_c_c_c_>

3240 3250 3260 3270 3280 3290
 CTA AGT GGC CCA AGT GGG GGA TCG GGC TCA CAG TTG GTA CAG AAT GTT GAT GTC CTT
 GAT TCA CCG GGT TCA CCC CCT AGC CCG AGT GTC AAC CAT GTC TTA CAA CTA CAG GAA
 L S G P S G G S G S Q L V Q N V D V L>
 _c_c_c_c_c_c_c_c_c_c_EXON3 _c_c_c_c_c_c_c_c_c_c_>

3300 3310 3320 3330 3340
 GTA AAG CAG CCC ACC AGC TCT TCA TCA AGG GAG CAG TCA GAT GAT GAT GAC ATG AAG
 CAT TTC GTC GGG TGG TCG AGA AGT AGT TCC CTC GTC AGT CTA CTA CTA CTG TAC TTC
 V K Q P T S S S S S R E Q S D D D D M K>
 _c_c_c_c_c_c_c_c_c_c_EXON3 _c_c_c_c_c_c_c_c_c_c_>

3350 3360 3370 3380 3390 3400
 GGA GAA GCT GAG ACC ACT GGA ACT GCA AGA CCT GCT GAT CAA AGA TTA CAA CGA
 CCT CTT CGA CTC TGG TGA CCT TGA CGT TCT GGA CGA CTA GTT TCT AAT GTT GCT
 G E A E T T G T A R P A D Q R L Q R>
 _c_c_c_c_c_c_c_c_c_c_EXON3 _c_c_c_c_c_c_c_c_c_c_>

Fig. 2E

3410 3420 3430 3440 3450 3460 3470
AGGTGATC ATTCATTGCT TCCTTGTAAT ATAGATTCTG TACATAATTA ACCTACCTCG TCATGCATGC
TCCACTAG TAAGTAACGA AGGAACATTA TATCTAAGAC ATGTATTAAAT TGGATGGAGC AGTACGTACG

3480 3490 3500 3510 3520 3530 3540
ATGTGTCCTA TTTTCACCTT AGCCCTTTCA GTTGGATTTT CACTTTTCATC CGGTAGCCCTT TCAGTTTCCT
TACACAGGAT AAAAGTGGAAG TCGGGAAAGT CAACCTAAAG GTGAAAGTAG GCCATCGGAA AGTCAAAGGA

3550 3560 3570 3580 3590 3600 3610
ATTGCATGCG ATATATGATC TTTTACCTAC CATATTAGTT CTCTGTGTGC CATACTCAGT GCTTAGTGTC
TAACGTAGCG TATATACTAG AAAATGGATG GTATAATCAA GAGACACACG GTATGAGTCA CGAATCACAG

3620 3630 3640 3650 3660 3670 3680
TCGAGCAAGA GAGGAATTGG TATGGCTATT ACACGTAGCA CTTTGTCTCT TACTTGTGTTA TTGACATAAG
AGCTCGTTCT CTCCTTAAAC ATACCGATAA TGTGCATCGT GAAACGAGAG ATGAACAAAT AACTGTATTCT

3690 3700 3710 3720 3730 3740 3750
CAATTTGGGA TGAATTAAAT CTGAGTTCAC ATCATATTCC TTATGTCACA AGTTTCTGAA ACCGATTGTA
GTTAAACCCCT ACTTAATTTA GACTCAAGTG TAGTATAAGG AATACAGTGT TCAAAGACTT TGGCTAACAT

3760 3770 3780 3790 3800 3810 3820
TCTAGTATCT GGTGTATGCA CCCCCATCTT GGATTGCAA ATCAAAGTTA TACTCCCTAG AGAGCTTTAC
AGATCATAGA CCAACTACGT GGGGGTAGAA CCTAAACGTT TAGTTTCAAT ATGAGGGGATC TCTCGAAATG

3830 3840 3850 3860 3870 3880 3890
CTTTCATAAA GCAATTACCC CAATAAACC CGGATTTGAT AGCTATTGAC TATGATTACC AGAATTCATT
GAAAGTATTT CGTTAATGGG GTTATTGGT GCCTAAACTA TCGATAACTG ATACTAATGG TCTTAAGTAA

3900 3910 3920 3930 3940 3950 3960
TGGCAGCTAT TTTCTCAATT TAAGTTTGGT ATTAGTCTCA GTTGGCTGTA AAATAATGTC ACGGTAGGGT
ACCGTCGATA AAAGAGTTAA ATTCAAACCA TAATCAGAGT CAACCGACAT TTTATTACAG TGCCATCCCA

3970 3980 3990 4000 4010 4020 4030
ACATGTATGT GCAGCATACA AGGTATGGGT GAGTTATGAT ATGACACAGTG TGTACACCCC ACATTTGCTC
TGTACATACA CGTCGTATGT TCCATACCCA CTCATACTA TACCTGTAC ACATGTGGGG TGTAAACGAG

4040 4050 4060 4070 4080 4090 4100
ACTAAATCA AAATATTCAA ACGTCACGTG ATGATATGGT GGATTGCATT ATACCTTGTA TTGTTTATTA
TGATTTTAGT TTTATAAGTT TGCAGTGCAC TACTATACCA CCTAACGTAA TATGGAACAT AACAATAAT

4110 4120 4130 4140 4150 4160 4170
TGTACTTTGT GCTAGACAAT AATATAGGCT GTTCTTTTGG GTGATTTTGT ATGAAGATGT TGAGCAAGCA
ACAAATGAACA CGATCTGTTA TTATATCCGA CAAGAAAACC CACTAAACA TACTTCTACA ACTCGTTCTG

4180 4190 4200 4210 4220 4230
CTTCTCGATA TAATGCTAGT TTTGTTGACC TGTTC AGG AAG CAA TCC AAT CGG GAG TCA GCC
GAAGAGCTAT ATTACGATCA AAACAACCTGG ACAAGG TCC TTC GTT AGG TTA GCC CTC AGT CGG
R K Q S N R E S A>
_d_d_d_EXON4_d_d_d>

Fig. 2F

4800 4810 4820 4830 4840 4850
 AGC TCC CCA TCT GAA GCA ACG TCA GAC GCT GCT GTT CCC ATC CAA GAT GAC CCG AAC
 TCG AGG GGT AGA CTT CGT TGC AGT CTG CGA CGA GGG TAG GTT CTA CTG GGC TTG
 S S P S E A T S D A A V P I Q D D P N>
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXON6 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ >

4860 4870 4880 4890 4900 4910
 AAT TAC TTC GCT ACT AAC AAC GAC ATC GGA GGT AAC AAC AAC TAC ATG CCC GAC ATA
 TTA ATG AAG CGA TGA TTG TTG CTG TAG CCT CCA TTG TTG TTG ATG TAC GGG CTG TAT
 N Y F A T N N D I G G N N N Y M P D I>
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXON6 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ >

4920 4930 4940 4950 4960
 CCT TCT TCG GCT CAG GAG GAC GAG GAC TTC GTC AAT GGC GCT CTG GCT GCC GGC AAG
 GGA AGA AGC CGA GTC CTC CTG CTC CTG AAG CAG TTA CCG CGA GAC CGA CGG CCG TTC
 P S S A Q E D E D F V N G A L A A G K>
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXON6 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ >

4970 4980 4990 5000 5010
 5020
 ATT GGC CGG CCA GCC TCG CTG CAG CGG GTG GCG AGC CTG GAG CAT CTC CAG AAG AGG
 TAA CCG GCC GGT CGG AGC GAC GTC GCC CAC CGC TCG GAC CTC GTA GAG GTC TTC TCC
 I G R P A S L Q R V A S L E H L Q K R>
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXON6 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ >

5030 5040 5050 5060 5070 5080
 ATG TGC GGT GGG CCG GCT TCG TCT GGG TCG ACG TCC TGA GACCGA AACCCAGAGC
 TAC ACG CCA CCC GGC CGA AGC AGA CCC AGC TGC AGG ACT TTGGCT TTGGGTCTCG
 M C G G P A S S G S T S >>
 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ EXON6 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ >

5090 5100 5110 5120 5130 5140 5150
 TGCCTCGGTT CTGAAAGACA CTGCGAGCAG GAAATGATGA TTGGACAGGC GTAGACATTG CTAATGCTGT
 ACGAAGCCAA GACTTCTGT GAGCCTCGTC CTTTACTACT AACCTGTCCG CATCTGTAAC GATTACGACA

5160 5170 5180 5190 5200 5210 5220
 GAGGTGTGATG ATTGTTGGTC GTGCTGCTGCG TCATTGTGCA TTCTTTGTAA GGGACACCTC TTAGTACCCT
 CTCCAACATAC TAACAACCGAG CAGCAGCAGC AGTAACACGT AAGAAACATT CCCTGTGGAG AATCATGGGA

5230 5240 5250 5260 5270 5280 5290
 CTCTCTCTAA GGGACTTAGT ACCCCTTGTC GATCTCATCG TCCTAAATAC TATACACATT AGCCAAATGT
 GAAGAAGATT CCCTGAATCA TGGGGAACAC CTAGAGTAGC AGGATTATG ATATGTGTAA TCGGTTTACA

>terminator

5300 5310 5320 5330 5340 5350 5360
 TCATTGGTGT GATGGCGTCG TCCCTAATTT GAACGACTGA TTTCAGGCAG CTGCTATGCT ATCATTCATG
 AGTAACCACA CTACCGCAGC AGGGATTAAA CTTGCTGACT AAAGTCCGTC GACGATACGA TAGTAAGTTA

Fig. 2H

5370	5380	5390	5400	5410	5420	5430
AATATTTTGA	TCGATGCTTC	CTCTTGCTCT	TTGCTCTTAA	GCAACCAAGC	ATAAAGATAT	CACTACCCTTT
TTATAAACT	AGCTACGAAG	GAGAACAGAA	AACGAGAATT	CGTTGGTTCG	TATTTCTATA	GTGATGGAAA
5440	5450	5460	5470	5480	5490	5500
TGAGCTGTTT	ATTTGAAGTG	CAAAGCTAAG	CTCAATATCT	CAGGTGTCCA	TTTGAAGTTT	AAAGGTGAAC
ACTCGACAAG	TAAACTTCAC	GTTTCGATTG	GAGTTATAGA	GTCCACAAGT	AAACTTCAAA	TTTCACCTTG
5510	5520	5530	5540	5550	5560	5570
TGATAACAAA	CGTCAGGCTA	TGGTGAATGA	AGGGACGTGT	ACATCCCTAA	TACATGTCAT	TTTCATAATC
ACTATTGTTT	GCAGTCCGAT	ACCACTTACT	TCCCTGCACA	TGTAGGGATT	ATGTACAGTA	AAAGTATTAG
5580	5590	5600	5610	5620	5630	5640
AAATTAGTTG	ATGCATTTTC	ACCCAGAATC	CCATCACAGT	TCATCATACA	AGCAAGTGTA	GTTATTAAATG
TTTAATCAAC	TACGTAATAAG	TGGGTCTTAG	GGTAGTGTCA	AGTAGTATGT	TCGTTACAT	CAATAATTAC
5650	5660	5670	5680	5690	5700	5710
GTAAATTTT	CGTTTAGAGA	AAAAAAAAGG	AAGCCTTATA	TAAGATTACG	CGGTGGGGTG	TGAACAATAA
CATTTAAAA	GCAAACTCT	TTTTTTTCC	TTTCGGAATAT	ATTCTAAGTG	GCCACCCAC	ACTTGTATT
5720	5730	5740	5750	5760	5770	5780
TCAATGAATG	AGATCGCATC	CCGTAAGGGC	AGCCTAGCTA	GACAAAAATG	CATAAACTC	CGTATACCAA
AGTTACTTAC	TCTAGCGTAG	GGCATCCCCG	TCGGATCGAT	CTGTTTTTAC	GTATTTTGAG	GCATATGGTT
5790	5800	5810	5820	5830	5840	5850
CCACAACAAC	GCTTGGCGAC	GCCTCAAAT	GGCAGCGACT	TCATCGCTTT	CGCGGGCAGG	AAACGAATCA
GGTGTGTTTG	CGAACGCGTG	CGCAGTTT	CCGTCGCTGA	AGTAGCGAAA	GCGCCCGCTG	TTTGCTTAGT
5860	5870	5880	5890	5900	5910	5920
AGTGATACAT	TGGCAGGGAA	CCACCAAAAG	AAGGCCATCC	AATCCAATCC	ACTCCAACGC	GGCATGGAAG
TCACATGTGA	ACCGTCCCTT	GGTGGTTTTT	TTCCGGTAGG	TTAGGTTTAG	TGAGGTTGCG	CCGTACCTTC
5930	5940	5950	5960	5970	5980	5990
ACAAGACAGA	TGATTACAGG	CTATCTTCTG	CTTCTACAAG	TTTGATACCT	TGTACTGTCC	TTTCAGGGAA
TGTTCTGTCT	ACTAAGTGTC	GATAGAAGAC	GAAGATGTTT	AAACTATGAA	ACATGACAGG	AAAGTCCCTT
6000	6010	6020	6030	6040	6050	6060
AAAAGAGCAT	CAGATTAGTG	TGATCTCGGG	CGCGTTGAGT	TCTTGTGGGA	GATCTTGTGG	TGGAGTGGCA
TTTCTCTGTA	GTCTAATCAG	ACTAGAGCCC	GCGCAACTCA	AGAACACCTT	CTAGAACAAC	ACCTCACCGT
6070	6080	6090	6100	6110	6120	6130
GGAGTGACGA	TCGGCTGCCC	CGTTTCTTTC	TACCGAAACA	TCGCGAGTAA	AGAAGCCAAA	AAGACAATAA
CCTCACTGCT	AGCCGACGGG	GCAAAAAGAG	ATGGCTTTGT	AGCGGTCAAT	TCTTCGGTTT	TTCTGTATT
6140	6150	6160	6170	6180	6190	6200
TACGGCAATG	GGGATCGCCC	ATCTGCATAA	AACATTGCAT	GACGGAACGT	ATTAATACAA	GAATGACATG
ATCCGCTTAC	CCCTAGCGGG	TAGACGTATT	TTGTAACGTA	CTGCCTTGAC	TAATTATGTT	CTTACTGTAC
6210	6220					
TAAGCTGATA	ATTACGCGTG	CAAGCTT				
ATTCTGACTAT	TAATGCGCAC	GTTCCGAA				

Fig. 2I

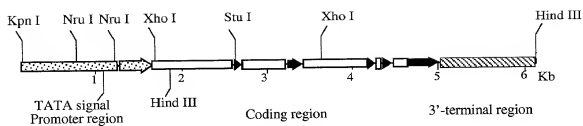


Fig. 3

```

10      20      30      40      50      60      70      80      90
AAGCTTCAT GCCTGCAGG AGGAGAGGG AGAGATGGT AGAGAGAGG AAGAGAGGA GGGGTGACAA TGTATGTGG GCCATGTGC
>Reb_sitel
100      110      120      130      140      150      160      170      180
CCCCACCAT TTTTAATCCA TTCTTTTGTT GAAACTGACA TGTGGTCCC ATGAGAATA TTATTTTTCG GATCGAATT GCCACGTAAAC
>Reb_sitel >reb_sitel
190      200      210      220      230      240      250      260      270
GCTACGTCAA TGCTACGTCA GATGAAGACC GAGTCAAAAT AGCCACGTAAAG GCCACGTACAG CCAAAACC ACCATCCAAA CCGCGAGGG
280      290      300      310      320      330      340      350      360
ACCTCATCTG CACTGGTITT GATAGTTGAG GGACCCGTTG TATCTGGITT TTGCGATTGA GGACGAAAT CAAATTTGTT GACAAGTTAA
370      380      390      400      410      420      430      440      450
GGGACCTTAA ATGAACCTAT TCACATTCAA AATATTTCTG GAGCCATATA TCCGTGGGCT TCCATTCCTC CTCAAATTAA AGGGCCTTIT
460      470      480      490      500      510      520      530      540
TAAAAATAGAT AATTGCCTTC TTTCAGTCAC CCATAAAAGT ACAAAACTAC TACCACACAGC CACATGCGC AGTTACACAC ATTTCCTGCA
550      560      570      580      590      600      610      620      630
CATTTCCACC ACGTCACAAA GAGCTAAGAG TTATCCCTAG GACAAATCTA TTAGTGTAGA TACATCCATT AATCTTTTAT CAGAGCGCAA
640      650      660      670      680      690      700      710      720
CGTAAGCGG CTCCTTTATG CAAAATAGG TGACACAAAA GTGTTATCTG CCACATACAT AACTTCAGAA ATTACCCAAC ACCAAGAGAA
730      740      750      760      770      780      790      800      810
AAATAAATAA AATCTTTTTC GCAAGCTCCA AATCTTGGAA ACCTTTTCCT CTCCTTTCAG CATTTGTACTC TTGCTCTTTT TCCAACCGAT
820      830      840      850      860      870      880      890      900
CCATGTCCAC CTCAGAGTTC TACTTGATCT ACAGGAAGCT CACCGTCAC ACAACCATG CCACAAAC CCTATAAAC CCCATCCGAT
910      920      930      940      950      960      970      980      990
CGCCATCATC TCATCATCAG TTCAATGACA ACAAAACAAA GAGGAAAAAA AACAATACCA CTCTTAGTGA TTGCTCATTT GATCATCAAT
1000      1010      1020
CTAGAGATC CCGGGTGGT CAGTCCCTT ATG
Gus Start site
1030      1040      1050      1060

```

Fig. 4

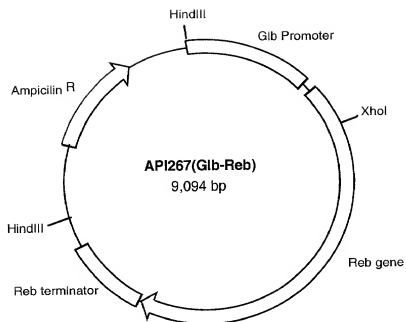


Fig. 5A

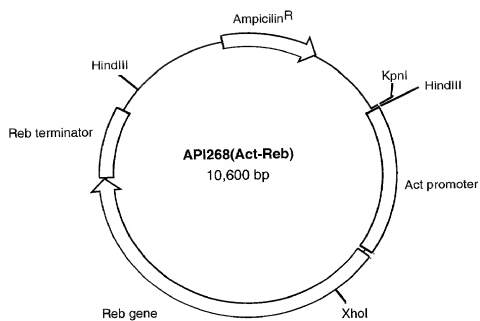


Fig. 5B

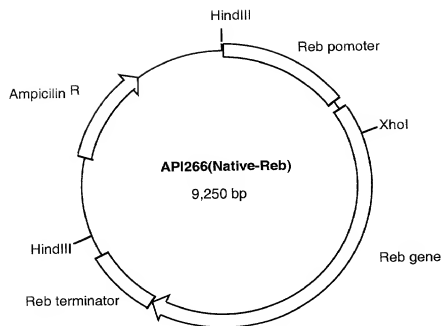


Fig. 5C

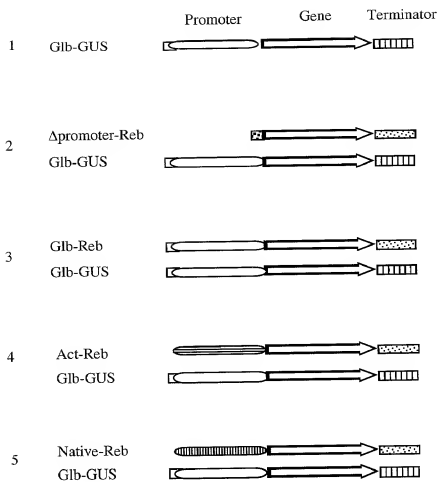


Fig. 6A

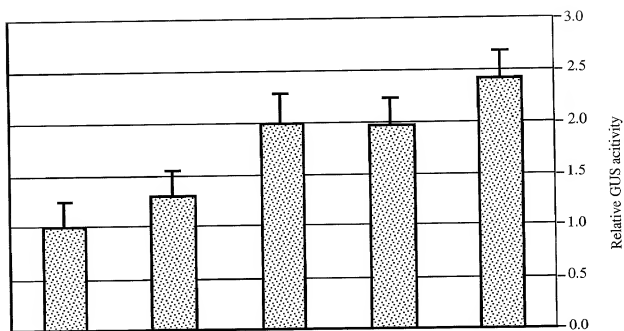


Fig. 6B

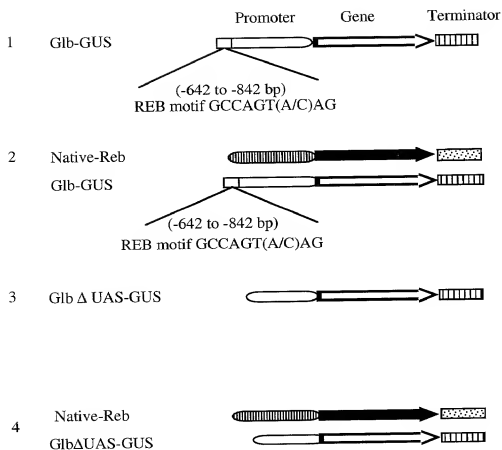


Fig. 7A

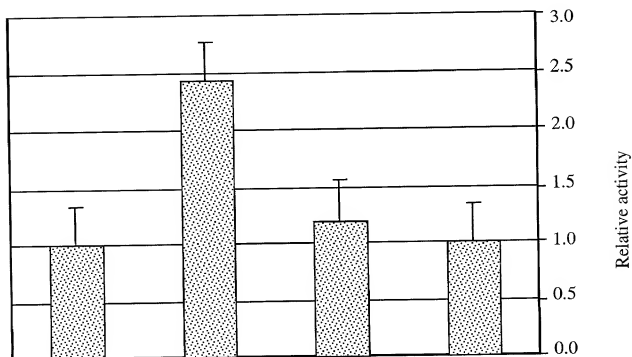


Fig. 7B

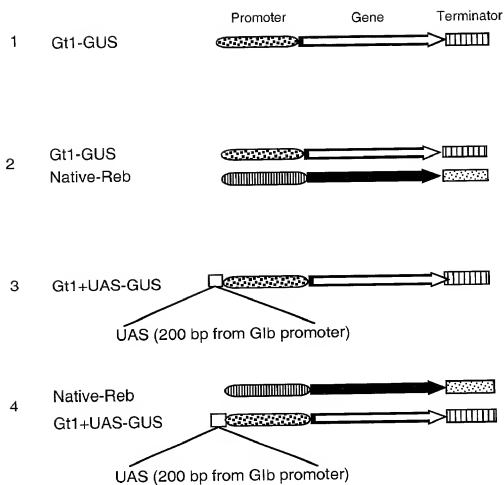


Fig. 8A

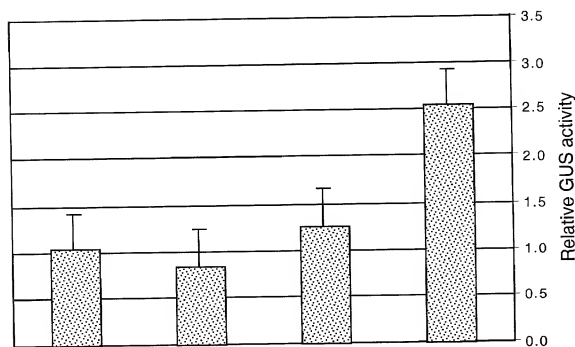


Fig. 8B

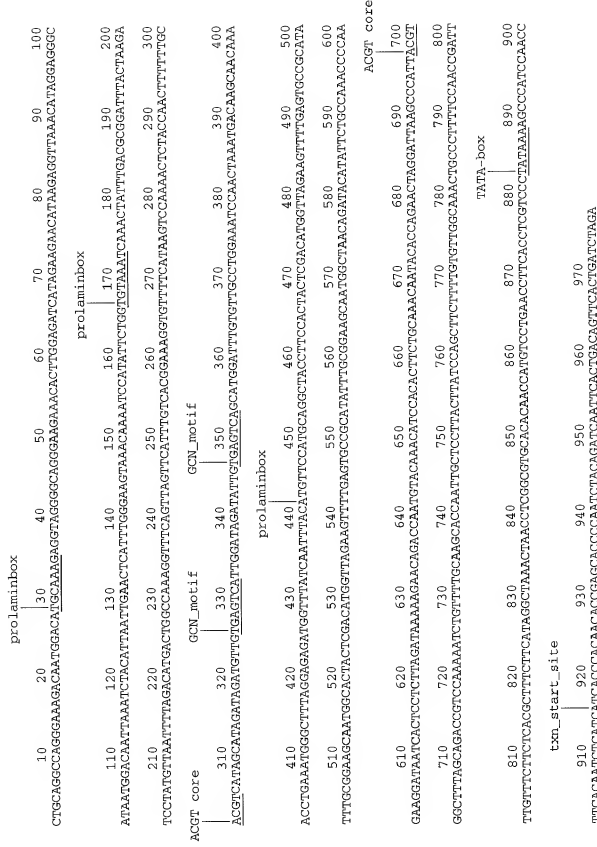


Fig. 10

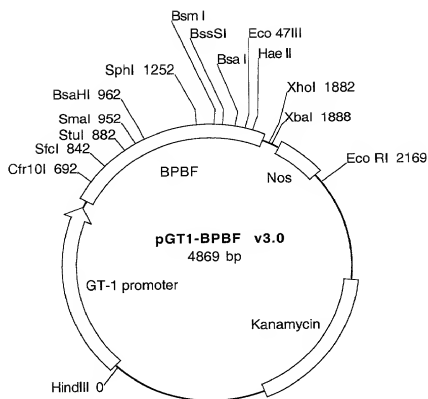


Fig. 11A

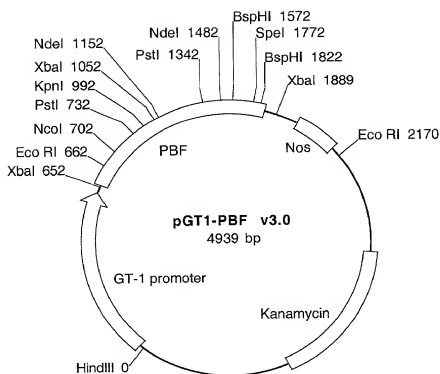


Fig. 11B

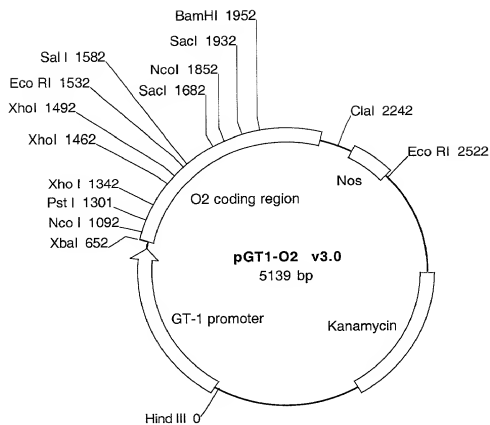


Fig. 11C

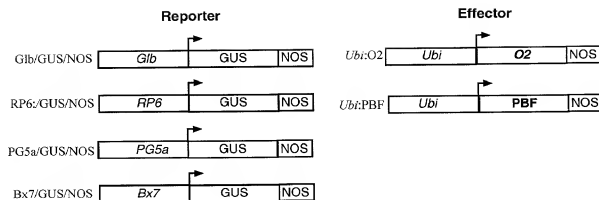


Fig. 12A

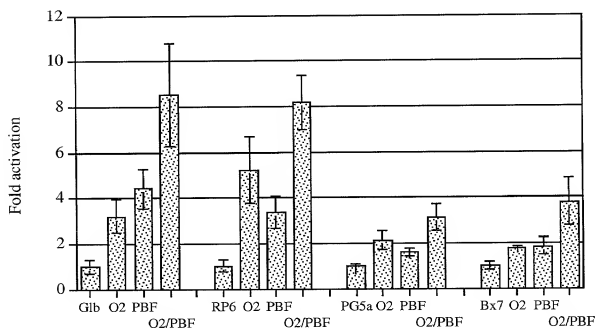


Fig. 12B

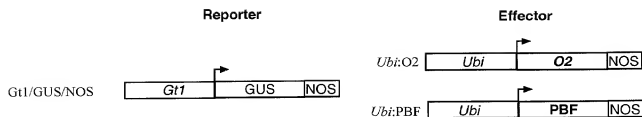


Fig. 13A

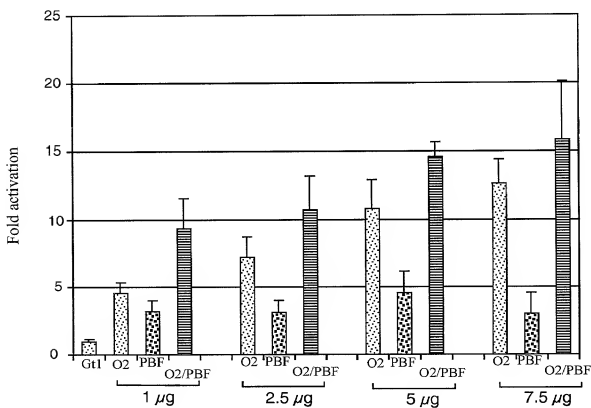


Fig. 13B

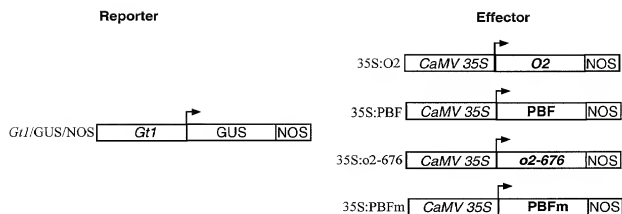


Fig. 14A

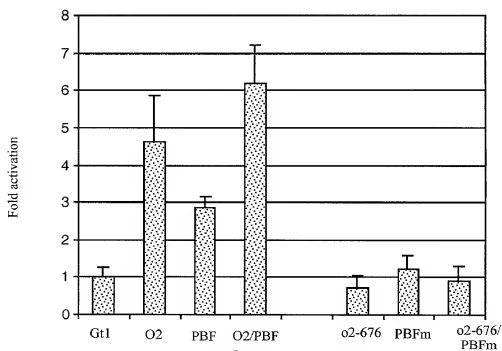


Fig. 14B

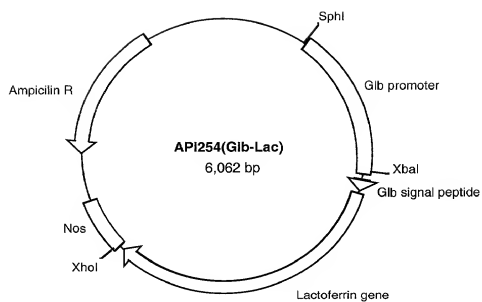


Fig. 15A

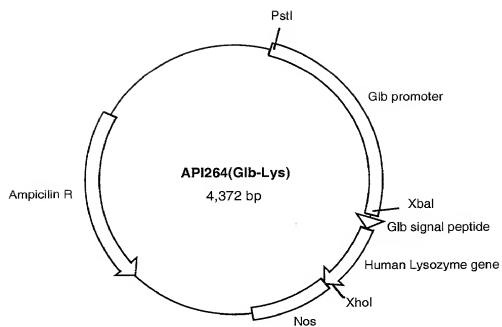


Fig. 15B

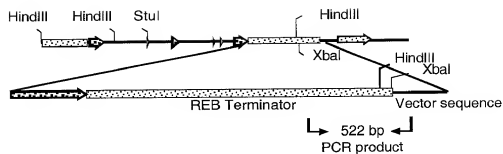


Fig. 16A

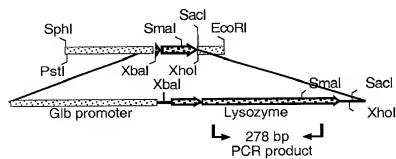


Fig. 16B

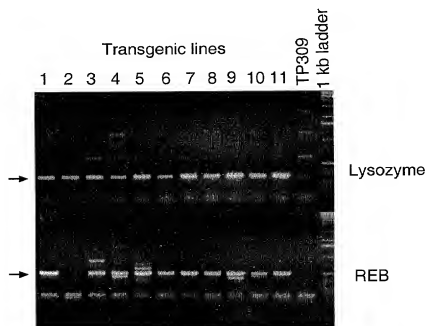


Fig. 16C

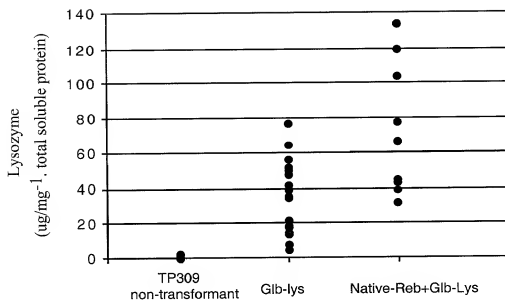


Fig. 17